

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L26	1	10/714449	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:51
L27	5	Laguens Ruben	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2007/01/17 17:52
L28	17065	VEGF VEGF\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:59
L29	3827	cardiomyogenesis cardiomyocyte\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:58
L30	1033	I28 and I29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:55
L32	127564	"424"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:56
L33	284	I32 and I30	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 17:57
L34	45	I32 and I30	USPAT; EPO	OR	ON	2007/01/17 17:57
L35	324	(cardiomyogenesis OR cardiomyocyte\$) transfect\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2007/01/17 18:08
L36	105	I28 and I35	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2007/01/17 17:59
L38	105	I36 and (VEGF VEGF\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:00
L39	21	I36 and (VEGF VEGF\$)	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:04
L42	57	Isner Jeffrey	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2007/01/17 18:04

## EAST Search History

L43	118	Alitalo Kari	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2007/01/17 18:04
L44	116	I42 or I43	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:05
L45	60	I44 and (heart cardio?)	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:05
L46	7	I44 and (heart cardio?).clm.	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:05
L47	8	(cardiomyogenesis OR cardiomyocyte\$) transfect\$.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2007/01/17 18:09
L48	322	(cardiomyogenesis OR cardiomyocyte\$) .clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2007/01/17 18:09
L49	96	I48 and I28	US-PGPUB; USPAT; EPO; JPO; DERWENT	SAME	ON	2007/01/17 18:15
L50	10	(("6395707") or ("6485942") or ("5194596") or ("5219739") or ("6020473") or ("6057428")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/01/17 18:23
L51	9160	514/44.ccis.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:24
L52	8838	424/93.\$.ccis.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:24
L53	16536	I51 or I52	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:24
L54	1957	I28 and I53	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:24
L55	220	I54 and I29	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:25
L56	31	I54 and I29	USPAT; EPO; JPO; DERWENT	OR	ON	2007/01/17 18:25

=> d his

(FILE 'HOME' ENTERED AT 17:06:41 ON 17 JAN 2007)

FILE 'MEDLINE, SCISEARCH, CAPLUS, BIOSIS' ENTERED AT 17:10:36 ON 17 JAN 2007

L1 170132 S CARDIOMYO?  
L2 70111 S VEGF OR VEGF-165 OR VEGF1-165 OR VEGF(2W)165  
L3 430 S L1 (L) L2  
L4 182 DUP REM L3 (248 DUPLICATES REMOVED)  
L5 41 S L4 AND PY<=2001  
L6 41 FOCUS L5 1-  
L7 2382 S VEGF165  
L8 70399 S L2 OR L7  
L9 442 S L1 (L) L8  
L10 186 DUP REM L9 (256 DUPLICATES REMOVED)  
L11 56 S L10 AND (TRANSFECT? OR TRANSPLANT?)  
L12 10 S L11 AND PY<=2001  
E LAGUENS RUBEN?/AU  
L13 40 S E1  
E EDUARADO MARCELO?/AU  
L14 7 S L13 AND L1  
L15 3 DUP REM L14 (4 DUPLICATES REMOVED)  
L16 2726 S (VASCULAR ENDOTHELIAL GROWTH FACTOR) (L) 165  
L17 25 S L16 (L) L1  
L18 12 DUP REM L17 (13 DUPLICATES REMOVED)  
L19 12 SORT L18 PY

=> d ti so au,ab 119 9

L19 ANSWER 9 OF 12 MEDLINE on STN  
TI Plasmid-mediated VEGF gene transfer induces cardiomyogenesis and reduces myocardial infarct size in sheep.  
SO Gene therapy, (2006 Aug) Vol. 13, No. 15, pp. 1133-42. Electronic Publication: 2006-04-06.  
Journal code: 9421525. ISSN: 0969-7128.  
AU Vera Janavel G; Crottogini A; Cabeza Meckert P; Cuniberti L; Mele A; Papouchado M; Fernandez N; Bercovich A; Criscuolo M; Melo C; Laguens R  
AB We have recently reported that in pigs with chronic myocardial ischemia heart transfection with a plasmid encoding the 165 isoform of human **vascular endothelial growth factor** (pVEGF165) induces an increase in the mitotic index of adult **cardiomyocytes** and **cardiomyocyte hyperplasia**. On these bases we hypothesized that VEGF gene transfer could also modify the evolution of experimental myocardial infarct. In adult sheep pVEGF165 (3.8 mg, n=7) or empty plasmid (n=7) was injected intramyocardially 1 h after coronary artery ligation. After 15 days infarct area was 11.3+/-1.3% of the left ventricle in the VEGF group and 18.2+/-2.1% in the empty plasmid group (P<0.02). The mechanisms involved in infarct size reduction (assessed in additional sheep at 7 and 10 days after infarction) included an increase in early angiogenesis and arteriogenesis, a decrease in peri-infarct fibrosis, a decrease in myofibroblast proliferation, enhanced **cardiomyoblast** proliferation and mitosis of adult **cardiomyocytes** with occasional cytokinesis. Resting myocardial perfusion (99mTc-sestamibi SPECT) was higher in VEGF-treated group than in empty plasmid group 15 days after myocardial infarction. We conclude that plasmid-mediated VEGF gene transfer reduces myocardial infarct size by a combination of effects including neovascular proliferation, modification of fibrosis and **cardiomyocyte** regeneration.

=>